

# Index to Vol. XXXVII

## SUBJECTS.

Absconding swarms.....	594	Black honey.....	678	Dividing bees.....	53, 125, 279, 305, 375, 439, 454
Acme and chaff hives.....	678	Blanketing bees.....	324	Do bees hear?.....	774
Adulteration of honey.....	37, 50, 56, 82, 121, 132, 187, 178, 182, 249, 294, 300, 307, 343, 344, 376, 387, 392, 405, 406, 449, 578, 683, 696, 770	Bogus honey.....	299	Don't spice the children.....	511
Advice to beginners.....	184, 307	Bottom-boards.....	778	Do swarms issue without drones?.....	439
After-swarms—prevention of.....	525, 581	Box-hives.....	681	Dravelling.....	199
Age at which a queen lays.....	339	Brasilianische Bienenpflege.....	156, 198	Drawing a crowd to sell honey.....	184, 184, 374, 423
Age of combs.....	385, 738	Breeding.....	645	Drawn combs.....	193
Albino bees.....	385	Breeding for longer tongues.....	645	Drawn combs in sections.....	72, 147, 179, 194, 200, 203, 227, 236, 300, 319, 484, 631, 645, 661, 679, 693
Alfalfa clover.....	113, 200	Brimstoning colonies.....	685	Drawn or partly drawn combs.....	35
Alley trap.....	486	Brood-chambers and frames.....	274	Driving bees out of supers.....	662
Aleutic clover.....	10, 97, 157, 165	Brood-combs filled with pollen.....	522	Drone comb foundation.....	534
Amalgamation.....	804	"Bucklebrut".....	582	Drone eggs.....	69
American Fruit Growers' Union.....	280	Buckled combs.....	717	Drone-laying queen.....	614
Ants and bees.....	311, 631	Buckwheat and clover in Mississippi.....	763	Drone progeny of queens.....	516, 644
Apiarian exhibit at fairs.....	162, 437, 690, 755	Buffalo convention.....	673, 681	Drones.....	11, 13, 54, 125, 199, 229, 385, 474, 501, 594, 640, 700
Apiarian improvements.....	548	Building an adobe bee-house.....	763	Drones in queen-cells.....	743
Apiarian observations and conclusions.....	593, 676	Building worker-comb.....	539	Dry lumber for hives.....	795
Apiarian self-help and the scrap-box.....	467	Bumble-bees in New Zealand.....	346	Dummies.....	693
Apiarian superintendent at Omaha.....	803	Bunions.....	463	Dummy or division-board.....	278
Apiaries in France.....	682	Burning over an apiary.....	408	Dzierzon hive.....	196
Apiaries wiped out.....	247	Busy bees not so irritable.....	500		
Apicultural principles.....	86	Buying bees.....	295		
Apis dorsata.....	3, 28, 38, 91, 153, 188, 244, 296, 803				
Are bees domestic animals?.....	109	California bee-hive.....	658		
Artichokes.....	511	California Bee-keepers' Exchange.....	41, 140, 167, 588, 631	Early Chicago swarm.....	344
Asilus Missouriensis, or bee-stabber.....	598	California honey-plants.....	434	Early flowers.....	308
Atmospheric conditions and nectar-secretion.....	467	Candied honey.....	74, 104, 259, 647	Elderberry-wine.....	703
Average honey crop.....	810	Cane sugar and glucose.....	409	Empty combs.....	43, 389, 486, 581, 582
		Cane vs. beet sugar.....	822	End spaces.....	164, 198
Backward in spots.....	743	Cappings.....	437	Entrance feeders.....	348, 354
Balled queens.....	427	Care of bees.....	437	Equalizing brood.....	822
Bee and honey exhibits at fairs.....	456	Care of comb honey.....	149	Equalizing colonies.....	614, 743
Bee-brush.....	10	Carniolan bees.....	106, 391, 535, 652	Errors corrected.....	435, 466, 596, 642
Bee-cellar.....	10	Carrying out larvae.....	589, 630	Establishing a standard for queens.....	609, 628, 642, 699
Bee-entrance guards.....	228, 391	Cedar hives.....	140	Excluding the bees.....	644, 677
Bee-escapes.....	289, 324, 547	Cells filled with pollen.....	803	Experiences with bees.....	212, 316
Bee-house.....	377	Chaff hive.....	26, 89	Experiments in apiculture.....	168, 228, 777
Bee-hunting in the Okefenokee.....	529	Changing queens.....	807	Exporting honey.....	790
Bee-intelligence.....	776	Changing the flavor of comb honey.....	149	Exposing eggs and larvae.....	555
Bee-keepers and the wine-cup.....	147	Chicago politician as a bee-keeper.....	23	Extracted and comb honey in the same colonies.....	85, 371, 386, 401, 499, 675, 771
Bee-keepers' exchange.....	147	Chickens eating worker-bees.....	743	Extracted vs. comb honey.....	147, 643
Bee-keeping as a business.....	358	Circular sections.....	11	Extracting combs.....	681
Bee-keeping experts.....	38	Climate for catarrh.....	135, 379, 422, 536, 557, 581, 743	Extracting honey.....	770, 795
Bee-keeping for women.....	772	Clipping queens' wings.....	631	Extra price for extra quality.....	743
BEE-KEEPING IN—		Closed-end frame and winter hive.....	135		
Australia.....	251, 309	Closed-top vs. open-top sections.....	178	Fastening down the bee-yell.....	585
British Columbia.....	655	Close spacing.....	463	Fastening foundation.....	103, 109, 241, 311, 474
California.....	82, 131, 137, 149, 276, 324, 364, 386, 515, 691, 721, 732	Colic or cramps.....	30	Feeders.....	476, 582
Canada.....	775	Colic—prevention of.....	487, 693	Feeding back.....	10, 33, 68, 118, 119, 162, 164, 183, 27
China.....	516	Colony in a house basement.....	610	Feeding bees.....	227, 293, 436, 476, 545, 566, 692
Colorado.....	590	Colony moving upstairs.....	794	Feeding maple and cane syrup.....	746, 793
Cuba.....	70, 708	Colony that loaf.....	131	Fertilization of queens.....	65, 540
Florida.....	84, 233, 337, 353	Colorado bee and honey statistics.....	229	Field-bees and nurse-bees.....	770
Georgia.....	621	Color of bees.....	327	Figwort or Simpson honey-plant.....	779
Indian Territory.....	786	Color of hives.....	19	Finishing queen.....	795
Iowa.....	428	Comb building.....	166, 822	"Fishbone" honey production.....	189
Louisiana.....	286, 404	Comb foundation.....	518, 579, 675, 690, 708	Flavor and aroma of honey.....	633
Manitoba.....	61	Comb management.....	55, 134, 180, 211	Flavor of extracted honey.....	106
Maryland.....	413	Comb honey—"manufactured".....	26	Flavor of honey nauseating.....	741
Massachusetts.....	798	Comb honey production.....	11, 20, 167, 180, 264, 392, 778	Fly bee-fighter.....	260
Michigan.....	101, 547	Comb honey—tinting up.....	21	Fly bee-fighter.....	260
Minnesota.....	603	Comb-leveiler and its use.....	119	"Fool capers".....	497
Nebraska.....	38, 132, 164, 389	Combs with candied honey.....	741	Forming nuclei.....	498
North Dakota.....	478	Comb vs. extracted honey.....	67, 81, 88, 130, 149	Foul brood.....	49, 52, 70, 115, 133, 147, 149, 180, 195, 197, 251, 279, 308, 345, 356, 370, 418, 530, 695, 712, 728
Old Mexico.....	541	Commission men.....	4, 6, 12, 37, 105, 141, 164, 216, 264, 283, 294, 392, 440, 568, 572, 616, 617	Foul-broody honey.....	589
Oregon.....	461	Consumption of honey.....	770, 776	Foundation.....	52, 228, 250, 252, 727, 743, 779, 810, 819
Quebec.....	715	Contrasting the broad-wing.....	119	Foundation in sections.....	26
Southland.....	39	Controlling fecundation of queens.....	692	Foundation mills.....	313
Tennessee.....	173, 204, 252	CONVENTION REPORTS—		Foundation roller.....	375
Texas.....	108, 396	Central Texas.....	517	Frames—best kind.....	228
Tunis.....	631	Colorado.....	181, 196, 213, 229	Frank of a swarm.....	744
Utah.....	78	Illinois.....	6, 21, 33, 136, 245, 260, 277	Fruit-growers and bee-keepers.....	198
Virginia.....	259	Michigan.....	165	Full pound sections.....	198
Washington.....	269	Minnesota.....	34, 117, 131	Fumigating honey.....	387
West Virginia.....	508, 519	Minnesota.....	309, 312, 325, 341, 357, 373, 389, 405	Galvanized iron honey-tanks.....	125
Bee-keeping on the ranch.....	470	Northern American.....	309, 312, 325, 341, 357, 373, 389, 405	Gathering pollen.....	125
Bee-killer.....	685	Northeastern Ohio, Western New York and Northwestern Pennsylvania.....	76	Getting bees from a tree.....	54, 173, 188
Beel as honey.....	777	Northern Illinois.....	581	Getting bees into the sections.....	405, 355, 595, 720
Bee-lice.....	726	Ontario.....	69	Getting bees to work in the sections.....	35, 74, 423
Bee-master.....	713	Southern Minnesota.....	636	Getting partly-filled sections cleaned up.....	103
Bee-moth or wax-moth.....	723, 807	Southwestern Wisconsin.....	737	Getting people into bee-keeping.....	728, 737
Bee-odor.....	614	St. Joseph.....	8	Getting pure queens.....	645
Bee-paralysis.....	278, 362, 408, 422, 481, 628, 631, 676, 707	Texas.....	278	Giving due credit.....	118
Bee-pasturage.....	763	United States Bee-keepers' Union.....	392, 408, 410, 455, 456, 753, 769, 785	Giving other honey a basswood flavor.....	822
Bee-poison.....	711	Utah.....	801	"Gobby" comb honey.....	485
Bees affected with diarrhea.....	118	Vermont.....	149	Good advice (poem).....	543
Bees and fruit.....	149, 211, 695	Wisconsin.....	88, 104, 133	Good years—will they come again?.....	340
Bees and honey in the Bible.....	824	Conventions—do they pay?.....	792	Graceful figure.....	519
Bees dragging out larvae.....	745	Co-operation among bee-keepers.....	785, 824	Grading honey.....	440, 566, 631, 679, 729, 770, 822
Bees eaten into by mites.....	102	Crick in the back.....	463	Grandma.....	543
Bees gathering wax.....	726	Crimson clover.....	113, 233, 349, 415	Granulated alfalfa honey.....	48
Bees getting into a shop.....	743	Crowded out.....	439	Granulated honey.....	88
Bees hanging out.....	484	Cultivating the home market.....	472	Grass and weeds in the apiary.....	424
Bees having a play-spell.....	639	Cushions and quilts.....	102	Great honey region.....	793
Bees in a bee-keg.....	664	Dead bees.....	262		
Bees in Hawaii.....	681	Dead brood—carrying out.....	487		
Bees in honey-houses.....	117				
Bees in winter.....	795				
Bees killing each other.....	663, 806				
Bees of Borneo and the East.....	501				
Beespace.....	246, 259, 321, 380, 482, 562, 594, 708				
Bees packed in straw.....	36				
Bees spotting clothes.....	36				
Bee-sting remedy.....	509, 695				
Bee-stings.....	10, 42, 89, 230, 259, 362, 420, 451, 543				
Bee-swarm a "corn" cure.....	52				
Bees working in the supers.....	559				
Bee-yells and cross bees.....	117				
Beginners in bee-keeping.....	329, 562, 597, 658, 692				
Benton's "honey-bee" bulletin.....	230				
Best bees.....	486				
Best hybrid bees for honey.....	517				
Best wood for hives.....	645				
Big colonies.....	553				
Biliousness.....	463				
Bi-sulphide of carbon for killing worms.....	23				
Bitter honey.....	474, 727				
Black bees.....	52, 294, 500, 597				

Honey-can caps.....	203	Moving bees.....	87, 100, 102, 116, 118, 167, 583, 589, 611, 646, 692.....	Sage vs. white clover.....	515
Honey-candy.....	9, 169	589, 611, 646, 692.....	693	Salt in bee-keeping.....	205
Honey champagne company.....	232	Moving to California.....	131	Saving a late swarm.....	582
Honey cookies.....	169	Much ado about nothing.....	521	Saving bee-papers.....	228, 824
Honey cost of wax.....	762	My old neighbor and his bees.....	547	Scent of insects.....	691
Honey cough cure.....	167, 543	National Bee-Keepers Union.....	36, 40, 50, 52, 290, 344, 405, 408, 759, 804.....	Scotch sealer.....	726
Honey crowding out brood.....	359	Neatness in bee-keeping.....	30	Scrap-box.....	467
Honey-dew.....	518	Nebraska bee and honey house.....	168	Screens.....	463
Honey drink.....	53	Nebraska State Fair.....	440, 689	Scripture cake.....	616
Honeyed baked apples.....	744	Nectar secretion.....	467	Scrofula.....	463
Honey Exchange.....	59	New bee-disease.....	229	Season of 1898.....	5
Honey extractors.....	52, 243, 313	New bee-papers.....	38, 312	Second supers—when given to bees.....	244
Honey-flow of 1897.....	561	New Constitution.....	18	Sections.....	187, 228, 391, 477, 726, 807
Honey for curing small-pox.....	40, 136	Newspapers around hives.....	228	Sections partly filled.....	53, 74
Honey for wintering.....	746	New York foul brood law.....	776	Sections—tall vs. square.....	181
Honey ginger cake.....	9	No-bee-way sections.....	779	Sections without bee-spaces.....	712
Honey-guide.....	612	Non-swarming.....	54, 292, 547, 822	Selecting queens.....	504
Honey-house.....	589	Non-swarming device.....	441	Self-hiving and non-swarming hive.....	626, 692
Honey in the sections.....	21	Northwestern Bee-Keepers Society.....	440	Selling honey near home.....	629, 659
Honey-jumble recipe.....	56	Noxious weeds.....	246	Selling names of bee-keepers.....	232
Honey lemonade.....	361	Nucleus vs. full colony for queen-rearing.....	75	Selling sugar syrup for honey.....	534
Honey liked best.....	11, 148	Number of frames in the brood-chamber.....	87	Separators.....	42, 66, 86, 189, 389, 588, 726
Honey market.....	487	Observation hive.....	561	Separators in shipping-cases.....	795
Honey on meal for bees.....	565	Omaha Exposition.....	252	Separators vs. slotted sections.....	68
Honey packages.....	420	Open letter to C. B. Bankston.....	466	Sex of eggs.....	231
Honey-plants.....	52, 284, 311, 343, 380, 389, 406, 434, 451.....	Orange honey.....	57	Shade-boards—construction of.....	19
Honey-plant of Florida.....	19	Organization and co-operation must come.....	692	Shade for hives.....	39
Honey prices.....	453, 497, 548	Organizing a bee-society.....	121	Shipping bees.....	87, 295
Honey prices in South Africa.....	156	Our debt to the bees.....	236	Shipping beeswax.....	117
Honey recipes.....	536	Over-apariy.....	389	Shipping honey.....	167, 386, 788
Honey salve.....	536	Out-stocking a locality with bees.....	531	Shutting bees up.....	196
Honey samples.....	214	Packages for honey.....	360, 581, 821	Simpson honey-plant or figwort.....	642, 702, 718
Honey sources.....	531	Packing bees.....	711	Singing.....	703
Honey stored by a worker.....	695	Packing colonies.....	355	Size of queens.....	645
Honey-tea.....	504	Packing honey.....	530	Small hives for wintering.....	763
Honey to produce a pound of bees.....	794	Packing honey near neighbors.....	263	Smoker fuel.....	425, 500, 617, 691, 779
Honey vs. increase.....	778	Paddy O'Brien's picnic.....	437	Smokers.....	500
Honey-vinegar.....	1, 70, 86, 162, 163, 210, 794, 803	Painted vs. unpainted hives.....	267, 810	Smoking.....	451
Honey working.....	454	Paint for hives.....	55	Soft white hands.....	510
House apiculture.....	120, 795	Paint rough lumber.....	30, 46	Solar wax extractor.....	779
House full of bees.....	353	Palestine vs. Italian bees.....	403	Sorghum and cider mills.....	693
How to avoid being stung.....	355	Paraffine paper and Danzenbaker hive.....	627, 759, 779	Sorghum for spring stimulation.....	363
Hybrids.....	374	Pastebord for winter protection.....	52	Source of greatest amount of honey.....	123
"If" (poem).....	804	Peanuts.....	703	Sour honey.....	88, 118, 120, 123
Illinois Bee-Keepers Association.....	453	Pecos Valley, honey production in.....	23	Spacers for top-bars.....	779
Illinois pure food laws.....	504	Peddling honey.....	683, 725	Spacing frames.....	269, 296, 298
Illinois State Fair and exhibits.....	648, 680	Picked brood.....	419, 806	Spacing of combs.....	679
Importing honey.....	152	Placing bees near a line fence.....	263	Specialized development in honey-bees.....	577
Importing Italian queens.....	27, 87	Placing bees near neighbors.....	81	Spelling reform.....	8, 54, 72, 121, 155
Increase and disinfectant.....	639	Placing hives.....	10, 727	Spilling the market.....	726
Increase.....	39, 294, 305, 532	Planting for honey.....	423	Spraying fruit trees.....	149, 216, 253, 294
Indigestion.....	543	Planting in an orchard.....	120	Spreading brood.....	532
Influence of pollen.....	502, 515	Planting trees.....	744	Spring management.....	198
Influence of the queen on the spermatozoa.....	228	Plea for honey.....	744	Spring work among the bees.....	209
Ingrowing nails.....	463	Poisonous honey.....	559, 637, 703	Square vs. oblong sections.....	329
Insects in honey.....	313	Pork diseases—hog men.....	91	Stamping sections.....	164
Insect supposed to kill bees.....	423	Postage stamps.....	511	Starting in bee-keeping.....	291, 311, 812
Instinct or reason in insects—which?.....	83	Potassium Permanganate.....	695	Starved brood.....	435
Intelligence in bees.....	419	Practical bee-keeping.....	597	Stimulative feeding.....	646
Interesting questions.....	359, 374, 375	Practical suggestions.....	299	Stingless bees.....	280, 679
Introducing queens.....	2, 38, 78, 247, 278, 328, 524, 566.....	Preparation of honey for.....	530	Storing after extracting.....	708
Ita. clover.....	391	Preventing bees from leaving a new hive.....	164	Storing comb honey.....	546
Italian.....	183, 327	Prevention of foul brood among bees.....	633	Straight comb without honey.....	125
Italians vs. hybrids.....	42	Prevention of increase.....	247, 645	Straightening crooked combs.....	454
Keeping ants out of the hives.....	551	Prevention of swarming.....	230, 231, 262, 355, 370, 533, 595, 598, 645, 693.....	Strange queen.....	326
Keeping bees in a store.....	27	Prevention of virgin swarms.....	795	Strawberries and honey-bees.....	227
Keeping comb honey.....	21, 94, 229, 536, 642	Price and value of honey.....	795	Stray swarm.....	487
Keeping combs filled with pollen.....	582	Prices of bees.....	710	Strengthening brood.....	807
Keeping down increase.....	711	Production of comb honey.....	739, 742	Style and size of sections.....	378
Keeping frames of honey over winter.....	646	Production of wax.....	762	Succeeding in bee-keeping.....	201
Keeping honey.....	164	Progressive bee-keeping.....	385	Sugar beet.....	695
Keeping qualities of extracted honey.....	312	Proper warmth of a bee.....	52	Sugar for bees.....	103
Keeping queens.....	247	Propolis.....	500	Sugar for feeding.....	369
Keeping sections clean.....	55	Prospect for 1898.....	692	Sugar question.....	230
Keeping the queens out of the super.....	362	Publishing dead bees.....	569	Summer complaint.....	463
Killing drones.....	311	Publishing honey crop prospects.....	644	Summer management.....	499
Kingbird a friend.....	386	Pure drones from mislabeled queens.....	435	Super in two parts.....	69
Kreutzinger's honey harvest.....	625	Purity of Italian queens and drones.....	322, 338, 418	Supers for the harvest.....	30
Land of flowers.....	237, 354	Putting honey into combs.....	120	Swarm catcher.....	292
Langstroth frame.....	710	Putting on supers.....	166, 311, 359, 362, 437, 599	Swarming.....	2, 10, 11, 42, 119, 278, 279, 327, 359, 374, 375, 381, 418, 423, 438, 446, 454, 498, 503, 517, 567, 678, 679, 695, 778.....
Langstroth monument fund.....	505, 713	Putting pollen in the sections.....	519	Swarms deserting the hive.....	292, 486
Large entrances.....	807	Queen-bees and the mails.....	280, 328, 376, 612, 661, 724.....	Sweet clover.....	10, 13, 24, 34, 36, 54, 67, 114, 131, 133, 151, 163, 183, 193, 215, 246, 254, 296, 301, 307, 343, 365, 451, 489, 493, 514, 550, 584, 632, 645, 694, 697, 747.....
Large frames.....	762	Queen-cells in a queenless colony.....	487	Sweet clover hay.....	665, 680
Large vs. small hives.....	645	Queen dead on alighting board.....	809	"Sweet sixteen's" dozen questions.....	343
Large yields of honey.....	433	Queen-excluders.....	215	Taking off honey.....	534
Late reared queens.....	795	Queen "fainting".....	503	Taking supers off without the escape.....	676
Late swarms.....	794, 803	Queenless bees.....	74, 119, 166, 435, 582, 583, 614, 693.....	Talking through his (bee)-hat.....	792
Laying of queens.....	262, 328	Queen Mab—Christmas story for young bee-keepers.....	819	Tanning.....	543
Laying queens.....	481, 513, 676, 743	Queen-rearing.....	439, 535, 612, 630, 722	Tariff on honey.....	657
Laying workers.....	139, 294, 422, 498, 581, 603, 605, 685, 724.....	Queens.....	278, 357, 438, 646, 722	Taxing bees.....	167, 183, 267, 474
Lazy liver.....	543	Queens and foul brood.....	738	Teaching children about bees.....	121
Leveling comb in sections.....	26, 27, 118, 372, 734	Queens fighting.....	701	Tearing foundation out of sections.....	534
Light or full weight sections.....	34	Queen's leg paralyzed.....	743	Temperature for ripening honey.....	774
Like the bees (poem).....	629	Queens passing through bee-zinc.....	435	Temperature of a worker-bee.....	795
Liquefying honey.....	276	Queen stinging a worker.....	821	Temper.....	693
Locating an apiary.....	150, 693	Queen stung.....	227	Thin honey.....	322, 565
Longevity of bees.....	26	Queen-trap.....	391	Things learned in the apiary.....	262, 565
"Long Idea" hive.....	631	Quits for bees.....	259	Three-banded worker bees.....	435
Looking-glass for catching swarms.....	762	Quoting home market.....	488	Three or five banded bees.....	727
Loosening honey in supers.....	163	Raising hives.....	695	Toads fond of bees.....	557
Low prices of honey.....	152	Rates on honey and bees.....	773	Too much storage-room.....	499
"Maiden" or "virgin" swarms.....	803	Rearing queens.....	270, 435, 516, 524, 581, 781, 822	Transferring bees.....	42, 119, 260, 279, 326, 332, 359, 375, 519, 583, 598, 646, 679, 693, 742, 770.....
Making beeswax.....	117	Record take of honey.....	776	Transferring combs.....	375
Making yourself sick.....	543	Relation of bees to horticulture.....	757	Trans-Mississippi Exposition.....	164, 664, 680, 792, 824
Management for most honey.....	794	Remedy for colds.....	121	Travel-stained honey.....	631
Management of bees.....	54, 614, 823	Remedy for wax-moth.....	121	Trees and plant for honey.....	692
Managing apiaries.....	807	Removing comb honey.....	533	T supers and pollen.....	119
Managing swarms.....	285, 474, 741	Removing honey from the brood-chamber.....	746	Two colonies in one hive.....	135
Man and his shoes (poem).....	542	Removing pollen from brood-combs.....	823	Two eggs in a cell.....	474
Marketing honey.....	4, 8, 149, 152, 218, 263, 477, 492, 521, 531, 534, 536, 552, 563, 568, 616, 617, 711, 734, 770, 786, 790, 791.....	Removing surplus.....	567	Two queens in a hive.....	631, 645
Matting of queens.....	262, 402, 612	Removing the queen.....	291	Two Unions.....	631, 645
Meddlesome cow.....	632	Rending beeswax.....	564	Uncapping box.....	19
Meeting of the queen and drone.....	635	Replacing old combs into wax.....	631, 696	Uncapping can.....	377, 387
Melted down combs.....	631	Replacing queens.....	746	Unfilled sections.....	150, 228, 669, 795
Methods of increase.....	151	Reporting the honey crop.....	643	United States Bee-Keepers Union.....	24, 184, 216, 217, 242, 312, 344, 362, 376, 398, 408, 434, 538, 569, 644, 600, 620, 649, 665, 771.....
Michigan experiment apiary.....	643	Retard is the "set".....	436	Uniting.....	474, 590, 591, 693
Michigan's foul brood law.....	633	Rheumatism.....	543	Uniting weak colonies.....	358
Mignonette.....	10	Rietsche foundation press.....	631, 696	Unripe honey.....	402
Migratory bee-keeping in the South.....	611, 705, 708	Ringbarking.....	679	Unsheltered apiary the best.....	662
Mints.....	263	Robber-bees.....	498, 535, 695	Unstayed queens.....	809
Moldy combs.....	317	Robbing.....	446, 645, 670, 693	Utah's pioneer jubilee.....	429
Moth-balls in hives.....	211	Roof apiary.....	147		
Moth eggs.....	226, 230, 263, 389	Room for queen in producing comb honey.....	138		
Moths and combs.....	661				
Moth trap.....					



Valuable hints.....	563
Value of bees to fruit.....	691
Ventilating a bee-cellar.....	110
Vicious bees.....	163
Visiting.....	228
Visit to California.....	161
Visit to Nebraska.....	163
Visit to Switzerland and France.....	194
Visit to the Pacific Coast.....	219

Wanted to shake.....	821
Warnings to bee-keepers.....	136
Warts.....	543
Watch your words (poem).....	557
Watering bees.....	115, 172, 180, 204, 298, 395, 746
Water appearing capping.....	469
Weak colonies.....	247, 740
Wetting sections.....	744
What ails the bees?.....	215, 390
When to remove winter packing.....	135
White clover.....	97, 300, 389, 459, 515
White clover seed.....	46
White or pickled brood vs. foul brood.....	228
Whitewash for bee-shed.....	76, 110
Whitewash for undressed lumber.....	45
Who shall keep bees?.....	580
Why did the bees act so?.....	599
Width of sections.....	151, 411
Wild parsnips.....	61, 148, 155, 220, 391
Will bee-keeping pay?.....	490
Will of the workers.....	499
Winter brood-rearing.....	707
Winter case arrangement.....	307
Winter consumption of stores.....	762
Wintering bees.....	74, 109, 171, 199, 212, 218, 219, 229, 253, 315, 316, 318, 333, 354, 452, 535, 610, 616, 630, 694, 724, 754, 794, 803
Wintering bees in a cellar.....	134, 774, 794, 810
Wintering bees in snow-banks.....	758
Wintering bees out-doors.....	19, 251, 267
Wintering blacks vs. Italians.....	436
Wintering on sealed combs.....	821
Winter stores.....	18, 614, 647, 662, 711, 743
Winter packing.....	228
Winter passages.....	661, 684, 708, 728
Wire in section foundation.....	152
Wiring frames.....	87, 241, 646, 717
Wisconsin foul brood law.....	232, 345, 392
Work at the experiment apiary.....	149
"Worker queen".....	251
World's honey markets.....	538
Worth remembering.....	163

Yellow bees.....	535
Yellow-box honey.....	795
Yellow jackets destroying colonies.....	743
Yellow sweet clover.....	459
Yield of honey.....	807
Young bees working outside.....	82
Zinc separators.....	588, 712

## ILLUSTRATIONS.

Alfalfa or lucern clover.....	113
Alaska clover.....	97
Apiarian building on the Nebraska State Fair Ground at Omaha.....	161, 689
Apiary of C. W. McKown.....	225
Apiary of J. E. Enyart.....	1
Apiary of J. F. McIntyre.....	609
Apiary of George and Wayne Roby.....	545
Bee-escape.....	549
Bee-feeders.....	289, 290
Bevins, Edwin.....	497
Brood-frames.....	274
Buffalo Convention pictures.....	673, 817
Bussler's Mexican apiary.....	353
Cook, Prof. A. J.....	531
Corey's watering-trough for bees.....	115
Crimson clover.....	97
Dadant, C. P.....	533
Danzenbaker hive.....	145, 146
Diagram of Dadant hive.....	257, 258
Dovetailed hive corner.....	260
Doolittle, G. M.....	529
Drone-trap.....	519
Elwood, P. H.....	785
Figwort, Simpson honey-plant, carpenter's square, etc.....	642
Florida migratory apiary.....	353
Foul brood.....	49
Frame sawcers.....	275
Gallup, Dr. E.....	532
Golden, J. A.....	513
Hambaugh, Hon. J. M.....	721
Handy uncapping arrangement.....	19
Harding non-swarming device.....	241
Harrison, Mrs. L.....	532, 769
Heater, Mrs. J. N.....	209
Hive of Cyrus C. Aldrich.....	659
Holtzman, R. F.....	753
Home apiary of John Trumburger.....	737
Honey harvest at the apiary of L. Kreutzinger.....	625
Hutchinson, W. Z.....	753
Kreutzinger, L.....	625
Kreutzinger's apiary.....	627
Manum, A. E.....	781
Marshall, W. K.....	129
Mason, Dr. A. B.....	801
McKoy, Wm.....	530
Muling and pulling in its nurse's arms.....	385
Muth, Chas. F.....	657
New Champion chaff hive.....	99
New Hoffman frame for 1897.....	132
Newman, Thos. G.....	801
Observation hive.....	561
Orton Winter-case arrangement.....	305, 306
Pryal, W. A.....	769
Roose, Rev. Stephen.....	177

Secor, Hon. Eugene.....	709
Simpson, Mrs. A. A.....	273
Spruce Bluff apiary.....	337, 334
Square vs. oblong sections.....	321
Sweet clover.....	131
Top-bar.....	753
Taylor, Hon. H. L.....	550
Whitcomb, E.....	755
Winter, Rev. H. A.....	577
Wiring frames.....	540, 550
Van Deusen, J.....	465

## CORRESPONDENTS.

Abbott, Emerson T.....	178
Abbott, Mrs. Emma I.....	564
Ablers, Herman.....	461
Aiken, Wm.....	219
Aikin, K. C.....	17, 761, 772
Albertson, John W.....	239
Aldrich, Cyrus C.....	658, 692
Allen, L.....	574
Allen, Chas. B.....	140
Alley, Henry.....	94, 398
Ailing, N. N.....	589
Amos, Mrs. A. L.....	265, 670
Anderson, J. Allen.....	315
Andes, M. D.....	333
Applegate, S. T.....	187
Armstrong, J. E.....	806
Arnot, Jas.....	412, 702
Aschen, C. G.....	429
Aspinwall, L. A.....	85, 402, 499, 517, 547, 612
Atkins, Frank B.....	204
Auringer, Geo. H.....	62
Axtell, Mrs. L. C.....	100, 113, 163, 219, 259, 299, 350, 436

Bachmann, Aug.....	405
Baird, A. B.....	188, 508
Baldridge, M. M.....	92, 741, 765
Baldwin, A. A.....	205
Baldwin, A. V.....	267, 748
Balk, Mrs. C. A.....	798
Banker, F. L.....	140
Banker, Miss Emma.....	140
Bankston, C. B.....	108, 435, 517, 599
Barber, Jra.....	110, 206, 542
Barber, Mrs. A. J.....	61
Barnum, W. M.....	209
Barrette, Mrs. Paul.....	210
Bartlett, Ira D.....	769
Bartlett, Wm. H.....	301
Barts, Aug.....	267
Beardley, Edw. H.....	93
Beath, Joseph.....	148
Bechly, Fred.....	478
Becker, Chas.....	348
Beckwith, I. W.....	163, 316, 419
"Bee-Student," 593.....	
Beheler, B. F.....	494
Beights, M. W.....	412
Belding, Chester.....	251, 382, 683
Bell, G. W.....	731
Bentley, R. T.....	718
Benton, Frank.....	407
Besse, Dr. H. A.....	40, 67, 104, 296, 680
Bevins, Edwin.....	66, 161, 212, 354, 497, 670, 675, 724
Bingham, M. C.....	796
Bingham, S. W.....	140
Bingham, T. F.....	80, 148, 158, 796
Bischoff, Geo.....	430
Bisher, A.....	315
Blackburn, Chas.....	557
Black, F. N.....	349
Blanchard, Frank.....	705
Bland, Ellen C.....	638
Blank, F. N.....	44, 78, 701
Bloch, Dr. J. A.....	412
Boomer, A.....	236, 564
Boyer, Zipp.....	715
Bogert, J. A.....	187
Howen, C. F.....	188
Bradford, M. A.....	61
Breese, Chas. A.....	476
Brodbeck, Geo. W.....	260, 789
Brower, H. H.....	315
Brown, A. F.....	66, 116, 705, 789
Brown, Dr. J. P. H.....	722
Brown, E. W.....	124, 366
Brown, H. R.....	45
Brown, Isaac.....	298
Brown, Mrs. D. W.....	230, 621
Brown, Raymond K.....	220
Bryant, L.....	398
Buchanan, J. A.....	563
Buchanan, Aug.....	492
Buell, Wiley D.....	655
Bunch, C. A.....	4
Burnett, R. A.....	264
Bussler, F.....	62, 136, 541
Butler, Dr. S. S.....	492

Chambers, W. S.....	46
Chandler, H. N.....	683
Chantry, Thos.....	142
Chesley, Damon.....	332
Chrisman, H. T.....	156, 244
Christensen, Hans.....	428
Churchill, L. T.....	286
Clark, J. I.....	459
Collins, E. H.....	597
Collins, Thomas.....	252
Clayton, C. J.....	72
Clifford, J. M.....	238
Coggshall, W. L.....	508
Cole, Frank.....	180
Coles, J. D.....	603
Collins, E. H.....	597
Common-Sense "Bee-Keeping".....	259, 482, 819
Congdon, H. W.....	172, 270, 390
Conser, John.....	557
Cook, Prof. A. J.....	2, 51, 83, 131, 179, 212, 238, 242, 276, 291, 307, 389, 386, 405, 433, 470, 515, 531, 578, 691, 722, 805
Corey, John G.....	115
Cory, O. A.....	124
Coverdale, Frank.....	157, 65, 189
Cowell, L. S.....	1
Craig, John.....	348
Craig, Wm. D.....	125, 606
Craig, Wm. H.....	187
Craig, M. F.....	149, 527
Crawford, Chas. E.....	669
Crego, G. S.....	610
Crosby, A. F.....	61
Crowell, F. A.....	172
Cruikshank, J. L.....	301
Cullinan, W. J.....	229, 605, 428
Curry, C. W.....	76
Cutrell, Clay.....	444

Dadant, C. P.....	1, 50, 68, 109, 114, 162, 210, 257, 262, 397, 401, 449, 533, 583, 610, 658, 690, 740, 780, 774, 791, 818
Daniels, G. F.....	508
Daniels, W. M.....	142, 395, 735
Danisher, D. D.....	250
Danzenbaker, F.....	759
Darby, A. W.....	478
Davenport, C. S.....	67, 195, 292, 387
Davenport, F. J. R.....	268, 731
Davidson, R. J.....	269
Davis, Jas. A.....	107
Davis, S. P.....	476
Davison, R. E.....	638
Deacon, S. A.....	258, 289, 340, 372, 385, 467, 579, 612
Demaree, G. W.....	561
Denyer, J. W.....	549
DeWitt, J. A.....	653
Dick, Wm. M.....	667
Dixon, J. L.....	29
Doolittle, G. M.....	18, 81, 139, 194, 225, 305, 339, 463, 436, 451, 469, 500, 530, 546, 578, 642, 758
Dow, C. P.....	699
Drury, C. W.....	110, 747
Drury, Jas. B.....	141, 202, 404
Dudley, Geo. E.....	280, 300
Duncan, A.....	629
Dunnekan, Mrs. M. M.....	157, 317
Dupret, H.....	219, 70

Eagerty, Wm. H.....	110
"E. B.".....	542
Eddy, Leon.....	44
Eenigenberg, John.....	797
Eggers, J. F.....	46
Elliott, Wm.....	234
Ellis, Geo. C.....	429
Ellwood, P. H.....	408, 787
Emm, Dec.....	462, 493, 542, 590
Emmert, John V.....	91
Enyart, J. E.....	5, 28
Etheridge, Ernest L.....	655
Evans, L. E.....	239
Evans, Thos.....	232, 739

Fagg, J. B.....	430, 725
Fairburn, A. W.....	477
Fassett, J. W.....	234
Faylor, W. P.....	370, 643
Feaback, W. S.....	300, 372
Felt, H. W.....	604
Fetherolf, S. S.....	811
Fillmore, Rollin S.....	235
Finlay, W. A.....	348
Fish, H. A.....	798
Fisher, J. D.....	589
Fleming, Wm.....	315
Flick, Rev. H. H.....	590
Flores, P. W.....	172

Flory, Samuel.....	155
Fluckiger, A. F.....	747
Fowles, Chas.....	371
France, Jacob.....	235
France, N. E.....	133, 134, 297, 739
French, C. S.....	158, 285, 430
French, W. D.....	41
Fusselman, E. J.....	123

Galle, Peter.....	202
Galloway, H.....	689
Gallup, Dr. E. T.....	12, 30, 39, 110, 125, 146, 226, 241, 418, 481, 532, 545, 585, 609, 628, 642, 654, 680, 724
Gambrell, J. C.....	766
Gandy, J. L.....	332, 396, 781
Gathright, W. C.....	556, 562
Gately, J. G.....	61
Gebbia, Moses A.....	266
Gemmell, F. A.....	68, 324, 692
Gent, F.....	508
Georgeson, C. C.....	114
Getz, Adrian.....	38, 273, 548, 689
Gibbs, A. B.....	718
Givens, J. D.....	366
Golden, J. A.....	180, 211, 251, 398, 513, 742
Goodell, C. A.....	395
Gondie, Edward S.....	749
Graden, Randolph.....	94
Gray, Jas. L.....	379
Greene, Jeremy.....	62
Gresh, Henry K.....	58
Griesbach, Chas.....	332
Griffin, D. B.....	536
Ginnell, Mrs. Elizabeth.....	429
Gross, Gustave.....	193
Guderian, J.....	238

Haas, Michael.....	298
Hagler, H. T.....	413
Hairston, J. T.....	797
Haley, T. E.....	699
Halstead, Ernest W.....	28, 759
Hambaugh, Hon. J. M.....	721
Hamburger, J. E.....	462
Hammond, L. A.....	29, 77, 414, 508
Harkey, R. H.....	477
Harper, L. T.....	82
Harper, Sol.....	679
Harris, C. S.....	750
Harris, C. W.....	46
Harris, R. R.....	608
Harrison, Mrs. L.....	39, 84, 253, 301, 334, 452, 460, 531, 775
Hart, A. W.....	126
Hartman, Sanford.....	45
Hartzell, J. S.....	203, 741
Hassman, Fred.....	110
Hastin, R. L.....	254
Haviland, G. D.....	501
Haw, G. D.....	652
Hayes, E. M.....	12
Hay, W. A.....	165
Heath, H. M.....	251
Hechler, H. W.....	797
Hecskakers, M. P.....	364
Heim, Alvin L.....	538, 574
Heim, W. H.....	525
Hendry, Thos.....	786
Herrick, S. H.....	526
Hicks, Dr. J. M.....	196, 484
Hicks, J. C.....	572
Highbarger, L.....	478
Helm, A. J.....	357, 353
Hill, H. S.....	187
Hill, S. C.....	187
Hilton, Hon. Geo. E.....	200, 580
Hobbs, P. R.....	60
Hodgkins, C.....	235
Hoffman, John.....	172
Holden, E. L.....	60
Holding Bros.....	782
Holding, W. G.....	267, 623
Holmes, M. B.....	802
Holtmann, H. F.....	562, 755

Horton, R. D.....	44
Howard, Wm. R.....	761, 796
Howell, Wm.....	444, 685
Hubbard, J. L.....	557
Hubbard, John.....	44
Hubbie, J. W.....	574
Huffman, W. C.....	412
Huff, C. A.....	14
Huffman, E. R.....	219, 398, 415, 637
Huffman, E. H.....	700
Huffman, P. L.....	150
Hunt, J. N.....	278
Hunt, M. H.....	117
Hurt, W. D.....	126
Hutchinson, W. Z.....	65, 84, 101, 117, 147, 193, 276, 321, 437, 756

Ireland, Mrs. Lizzie.....	413
Ives, Jas.....	790

Jeffcoat, J. M.....	396
Johnson, Oliver S.....	699
Johnson, R. P.....	123
Johnson, Silas.....	398
Johnson, J. Webster.....	376
Jolley, Ed.....	234
Jones, H. L.....	251
Jones, J. W.....	218
Jones, Orville.....	98
Jones, W. I.....	696

Kauffman, E. B.....	509
Keeler, Thos. H.....	59
Keenan, Delle S.....	442
Keller, Theo.....	401
Kellie, J. T.....	255
Kelly, T. C.....	156

Kennedy, B.....	581
Kerlin, C. W.....	652
Keyes, Frank D.....	205, 68

Petro, Dr. 628  
 Pellew, W. A. 110, 123,  
 235, 398, 590  
 Pendergrass, Joel, 492  
 Pender, W. S. 310  
 Pettingill, C. H. 219, 683  
 Pettit, S. T. 71, 110, 741,  
 781  
 Phenicie & Bro., C. E. 19  
 Phillips, H. M. 29, 218  
 Polindexter, Geo. 318,  
 573  
 Pollock, James C. 348  
 Pond, J. E. 178, 298, 338,  
 364  
 Poppleton, O. O. 690, 708  
 Porter, Geo. 140  
 Porter, Houston, 76  
 Porter, W. L. 214  
 Prater, Geo. W. 459  
 Pryal, W. A. 158, 774  
 Putnam, W. H. 219  
 Quirin, H. G. 446, 636  
 Rasmussen, Frank, 734  
 Raichfuss, Frank, 213,  
 230  
 Renne, Wm. 366  
 Replegle, S. N. 12  
 Rhodes, J. Z. 299  
 Richardson, Nathan, 110  
 Richardson, W. T. 611  
 Richter, F. L. 46, 126, 236  
 Rickard, M. M. 60  
 Rickel, W. 349  
 Ridley, John, 203, 397  
 Riker, Geo. W. 187  
 Risher, Howard, 94, 153,  
 717  
 Ritchey, D. N. 715  
 Robbins, Geo. P. 278, 364  
 Roberts, Dr. C. S. 300  
 Roby, George, 534, 552  
 Rodenberger, K. 316  
 Rohrs, Rev. H. 644  
 Root, Ernest R. 89, 132,  
 148, 244, 484, 674  
 Rose, H. T. 59  
 Rosebrough, D. R. 348,  
 461  
 Rouse, J. W. 357  
 Ruddeman, P. 396  
 Rupp, J. H. 266  
 Russell, Wm. 28  
 Ryan, John M. 332  
 Sadler, J. W. 685  
 Sage-Brush, 708  
 Sampson, S. F. 510  
 Sanders, J. W. 429, 508,  
 556  
 Sanders, N. 13  
 Sanford, A. C. 740  
 Sanford & Co. 217  
 Sarff, Will J. 110  
 Savage Bros. 638  
 Savage, H. W. 525  
 Schartz, Peter J. 594  
 Schilling, Harry, 189  
 Schlesinger, R. 218  
 Schroder, Alex. C. M.  
 226  
 Scoggin, Edw. 493  
 Scott, Homer, 94  
 Scott, J. S. 172  
 Secor, Eugene, 248, 276,  
 329, 437, 696, 771, 804,  
 817  
 Seeley, F. A. 13  
 Seeley, S. M. 131  
 Seelig, H. 267  
 Seeman, Wm. 44  
 Seiberlich, Lorenz, 235  
 Seiler, John M. 251  
 Shearer, Geo. W. 637  
 Sherman, T. H. 414  
 Shirk, B. P. 187  
 Shockey, Ira, 509  
 Shone, J. A. 218, 268  
 Simpson, Mrs. A. A. 556  
 Singletary, S. B. 21  
 Sioli, P. A. 597, 622  
 Sipe, J. H. 140, 250  
 Skraggs, L. L. 164, 516  
 Skaffe, S. F. 91  
 Skylark, 227  
 Sleeth, J. S. 76, 317, 434,  
 451, 637  
 Smiley, D. B. 44  
 Smith, A. E. 605  
 Smith, A. W. 123  
 Smith, Edwin, 78  
 Smith, F. C. 524  
 Smith, J. P. 12, 317  
 Smith, J. Q. 413  
 Smith, L. H. 58, 629  
 Smith, M. P. 12, 250  
 Smith, O. M. 686  
 Smith, S. B. 62, 110, 268,  
 604  
 Snell, E. S. 92  
 Snell, F. A. 162  
 Snow, M. S. 270  
 Snowberger, A. H. 749  
 Snyder, Ellis E. 298  
 Southern Minnesota  
 Bee-keeper, 13  
 Spencer, W. 250, 477  
 Spittler, Geo. 130, 477  
 Staininger, N. 439  
 Stannard, C. A. 632  
 Stark, Henry, 58  
 Steers, Rev. Alton W.  
 365  
 Steinebach, Peter, 188  
 Steinfert, H. 12, 235  
 Stephan, Herman D. 718  
 Stephens, John, 140  
 Stephenson, G. W. 415  
 Stevenson, W. J. 765  
 Steves, Manoh. 438  
 Stewart, John C. 765  
 Stewart, W. H. H. 584  
 Stipp, Geo. H. 446, 547,  
 595, 665, 702, 742, 819

Stokesberry, K. R. 28  
 Stone Jas. A. 244, 260,  
 277  
 Stouffer, S. H. 107  
 Stout, George, 12, 701  
 Stout, S. 62  
 Strong, J. L. 127, 266  
 Stull, Mrs. Ruth F. 700  
 Sullivan, Ray, 78  
 Suter, John, 46  
 Suter, W. T. 652  
 Sutherland, Mrs. Mary,  
 444  
 Swanson, S. C. 715  
 Sweet, Caleb L. 578  
 Taylor, A. E. 174  
 Taylor, B. S. 155  
 Taylor, Geo. P. 173  
 Taylor, R. L. 102, 758  
 Taylor, V. F. 202  
 Templin, L. J. 365, 733  
 Teter, Rev. James G. 283  
 Theilmann, C. 4, 12, 40,  
 52, 248, 250, 286, 381,  
 444, 557, 572, 634  
 Thiel, Louis, 142  
 Thompson, Andrew M.  
 110  
 Thompson, F. L. 53, 181,  
 186, 213, 229, 627  
 Thurlow, Thos. 707  
 Tinslar, Dr. F. S. 58  
 Tomlinson, A. R. 221  
 Toombs, M. V. 428  
 Towle, Herbert C. 12  
 Tracy, D. L. 181  
 Trittenbach, Edwin, 110  
 Tubbs, G. F. 295  
 Tdrnbull, John, 284, 510  
 Tuttle, Mrs. Sophia J.  
 718  
 Tyrell, E. B. 397, 546, 732  
 Tyrell, A. C. 781  
 Uphouse, John, 110  
 Van Allen & Williams,  
 37, 203, 245, 574  
 Van Allen, J. W. 740  
 Van Amburgh, D. R. 123  
 Van Blaricum, Carson,  
 227, 636  
 Varian, W. A. 109, 286,  
 591  
 Virgin, W. E. 684  
 Vought, Albert, 125  
 Waale, T. H. 125, 398, 796  
 Wales, C. A. 332  
 Walker, Chas. 573  
 Walker, Earl C. 477  
 Walker, J. E. 382  
 Wallenmeyer, J. C. 124,  
 188, 382, 450, 493, 653  
 Warner, Jacob H. 46  
 Warner, O. W. 79  
 Washburn, G. M. 382  
 Way, S. 123  
 West, B. F. 414  
 Webb, N. L. 811  
 Webb, Wm. 253  
 Wedderburn, A. J. 697  
 Weed, E. B. 179  
 West, J. P. 821  
 Wheeler, Geo. S. 622  
 Wheeler, H. C. 811  
 Whipple, Col. 196  
 Whipple, E. B. 717  
 Whitcomb, Hon. E. 660,  
 664, 680, 755  
 Whitebread, Paul, 155,  
 398, 716  
 White, Dan, 725  
 White, James E. 329  
 White, L. 155, 524, 636  
 Whiting, J. L. 141  
 Whitmore, John H. 414  
 Whitten, Prof. J. C. 502,  
 515  
 Whittington, W. E. 397  
 Wickersham, Thos. 667  
 Wiggins, F. C. 172  
 Wilcox, John, 60  
 Wilcox, G. W. 204, 318  
 Wilcox, John, 254  
 Wilcox, J. W. 45  
 Will, D. W. 173  
 Williams, Geo. 360, 637,  
 641  
 Williams, Jas. W. 381  
 Williams, Rufus, 78, 333  
 Williamson, J. C. 29, 446  
 Williamson, J. H. 298  
 Williamson, Robt. 173,  
 494  
 Willis, L. M. 268, 322  
 Willson, H. P. 349, 381  
 Wilson, A. W. 78  
 Wilson, D. C. 141  
 Wine, P. D. 355, 477  
 Wing, Frank, 221  
 Wing, James H. 155  
 Wing, Mrs. Flora, 221  
 Winger, S. D. 747  
 Winter, Rev. H. A. 583  
 Wirth, J. F. 157, 315  
 Witherell, Henry, 141  
 Wolf, G. I. 573  
 Woodward, Dr. Robt. B.  
 792  
 Wright, C. A. 365  
 Wung Lung, 517  
 Yahke, Edward, 108  
 Yancuelli, A. R. 124, 235  
 Yearnshaw, R. H. 188, 687  
 York, George W. 134,  
 245, 774  
 Young, C. C. 393  
 Young, J. M. 38, 132, 164,  
 228, 389, 399, 412, 508,  
 689  
 Young, J. W. 45

# The Great People's Atlas of the World.

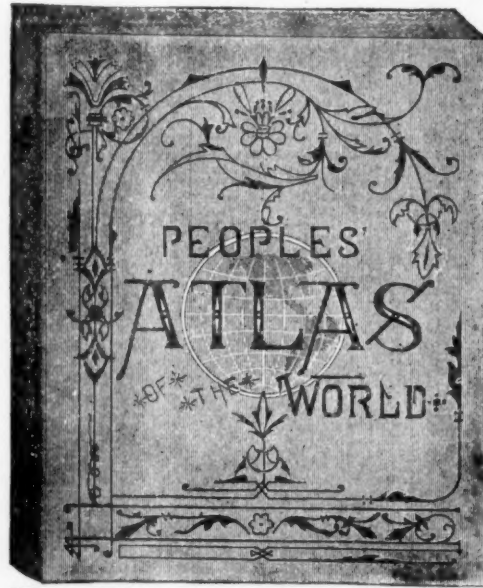
MORE THAN 100,000 COPIES SOLD ANNUALLY.

## Up-to-Date, Accurate, Beautifully Illustrated.

Nearly 70 Comprehensive Maps, many of them double-page.

140 New and Superb Illustrations. A whole Library in itself, of vital and absorbing interest to every member of the household.

Population of each State and Territory, of all Counties of the United States, and of American Cities of over 5,000 inhabitants, by latest Census.



Miniature Cut of Atlas. Actual Size, Open, 14 by 22 Inches; Closed, 14 by 11 Inches

The handsomely engraved maps of all the States and Territories in the Union are large, full-page, with a number of double-page maps to represent the most important of the States. All countries on the face of the earth are shown. Rivers and lakes are accurately located. All of the large cities of the world, the important towns and most of the villages of the United States are given on these maps; also every county in each State.

Over 200 Magnificent Illustrations and Maps embellish nearly every page of the Atlas and faithfully depict scenes in almost every part of the world.

This Atlas contains a prodigious amount of Historical, Physical, Political, Educational and Statistical matter, so comprehensively arranged and indexed that information on any subject can be found in a moment's time.

### Description of the World.

It contains a General Description of the World, giving its Physical Features, Form, Density, Temperature, Motion, Winds and Currents; Distribution of Land and Water; Races of People, their Religions and Numbers; also the most complete List of Nations ever published, giving their Geographical Location, Area, Population, Forms of Government, etc.

The Popular and Electoral Votes for President in 1884, 1888 and 1892, by States. List of All the Presidents. Agricultural Productions. Mineral Products. Homestead Laws and Civil Service Rules. Statistics of Immigration, 1820 to 1891. Public Debt for the Past 100 Years. Gold and Silver Statistics. Number and Value of Farm Animals. Cultivable Area as Compared with Increase of Population. Postal Information, with Domestic and Foreign Rates, and Other Information that should be in every Home, Store, Office and Schoolroom.

### Our Liberal Offers:

We will mail this great Atlas, postpaid, for only 50 cts.; or for \$1.40 we will send it with the Bee Journal for one year; or we will mail it free as a premium for sending us one New Subscriber (\$1.00) to the Bee Journal for a year.

GEORGE W. YORK & CO., 118 Michigan St., CHICAGO, ILL.

### Convention Notices.

**Michigan.**—The Michigan Bee-Keeper's Association will hold its annual convention Dec. 31 and Jan. 1, in the parlors of the Donevan House, in Mt. Pleasant, Mich. Reduced rates at the hotel, and probably on the railroads. A cordial invitation extended to all.  
 Flint, Mich. W. Z. HUTCHINSON, Sec.

**Ohio-New York-Pennsylvania.**—The Northeastern Ohio, Western New York, and Northwestern Pennsylvania Bee-Keeper's Association will hold their annual convention at Corry, Pa., Jan. 12 and 13, 1898. An interesting program has been arranged. All are invited.  
 Franklin, Pa. Ed JOLLY, Sec.

**California.**—The annual meeting of the California State Bee Keepers' Association will be held on Monday, Jan. 10, 1898, commencing at 2 p.m. The California Bee-keepers' Exchange will hold its annual session on Tuesday, Jan. 11 at 2 p.m. A full attendance of members is desired. Mr. Cowan, editor of the British Bee Journal, will be in attendance. Thos. G. Newman will also attend, health permitting.  
 J. H. MARTIN, Sec., Los Angeles, Calif.

**Queens and Queen-Rearing.**—If you want to know how to have queens fertilized in upper stories while the old queen is still laying below; how you may safely introduce any queen, at any time of the year when bees can fly; all about the different races of bees; all about shipping queens, queen-cages, candy for queen-cages, etc.; all about forming nuclei, multiplying or uniting bees, or weak colonies, etc.; or, in fact, everything about the queen-business which you may want to know—send for Doolittle's "Scientific Queen-Rearing"—a book of over 170 pages, which is as interesting as a story. Here are some good offers of this book:

Bound in cloth, postpaid, \$1.00; or clubbed with the BEE JOURNAL for one year—both for only \$1.75; or given free as a premium for sending us two new subscribers to the BEE JOURNAL for a year at \$1.00 each.

**READERS** Of this Journal who write to any of our advertisers, either in ordering, or asking about the Goods offered, will please state that they saw the Advertisement in this paper.

See the premium offers on page 749!



# BEE-BOOKS

SENT POSTPAID BY

George W. York & Co.,  
Chicago, Ills.

**Bees and Honey, or Management of an Apiary for Pleasure and Profit.** by Thomas G. Newman.—This edition has been largely re-written, thoroughly revised, and is "fully up with the times" in all the improvements and inventions in this rapidly-developing pursuit, and presents the apiarist with everything that can aid in the successful management of an apiary, and at the same time produce the most honey in an attractive condition. It contains 250 pages, and 245 illustrations—is beautifully printed in the highest style of the art, and bound in cloth, gold-lettered. Price, \$1.00.

**Langstroth on the Honey-Bee**, revised by Dadant.—This classic in bee-culture, has been entirely re-written, and is fully illustrated. It treats of everything relating to bees and bee-keeping. No apiarian library is complete without this standard work by Rev. L. L. Langstroth—the Father of American Bee-Culture. It has 530 pages; bound in cloth.

Price, postpaid, \$1.25.

**Bee-Keepers' Guide**, or Manual of the Apiary, by Prof. A. J. Cook, of the Michigan Agricultural College.—This book is not only instructive and helpful as a guide in bee-keeping, but is interesting and thoroughly practical and scientific. It contains a full delineation of the anatomy and physiology of bees. 400 pages; bound in cloth and fully illustrated.

Price, postpaid, \$1.25.

**Scientific Queen-Rearing**, as Practically Applied, by G. M. Doolittle.—A method by which the very best of Queen-Bees are reared in perfect accord with Nature's way. 176 pages, bound in cloth, and illustrated. Price, \$1.00.

**A B C of Bee-Culture**, by A. L. Root.—A cyclopedia of 400 pages, describing everything pertaining to the care of the honey-bees. It contains 300 engravings. It was written especially for beginners. Bound in cloth. Price, \$1.25.

**Advanced Bee-Culture**, Its Methods and Management, by W. Z. Hutchinson.—The author of this work is too well known to need further description of his book. He is a practical and entertaining writer. You should read his book. 90 pages, bound in paper, and illustrated. Price, 50 cts.

**Rational Bee-Keeping**, by Dr. John Dzierzon.—This is a translation of his latest German book on bee-culture. It has 350 pages; bound in paper covers, \$1.00.

**Bienen-Kultur**, by Thomas G. Newman.—This is a German translation of the principles portion of the book called **BEES OF HONEY**. 10; page pamphlet. Price, 40 cents.

**Convention Hand-Book**, for Bee-Keepers.—Thomas G. Newman.—It contains the parliamentary law and rules of order for Bee-Conventions—also Constitution and By-Laws, with subjects for discussion, etc. Cloth, gold-lettered. Price, 25 cts.

**Thirty Years Among the Bees**, by Henry Alley.—Gives the results of over a quarter-century's experience in rearing queen-bees. Very latest work of the kind. Nearly 100 pages. Price, 50c.

**Practical Hints to Bee-Keepers**—by CHAS. F. MUTH. Also contains a Foul Brood Cure and How to Winter Bees. 40 p.; 10 cts.

**Why Eat Honey?**—This Leaflet is intended for FREE distribution, to create a Local Market. 100 copies, by mail, 30 cts.; 500 for \$1.25; 1000, \$2.00.

**How to Keep Honey** and preserve its richness and flavor. Price same as Why Eat Honey.

**Alsike Clover Leaflet**.—Full directions for growing. 50 for 25 cts.; 100 for 40 cts.; 200, 70c.

**Apiary Register**, by Thos. G. Newman.—Devotes two pages to a colony. Leather binding. Price, for 50 colonies, \$1.00; for 100 colonies, \$1.25.

**Preparation of Honey for the Market**, including the production and care of comb and extracted honey. A chapter from **BEES AND HONEY**. Price, 10 cents.

**Bee-Pasturage a Necessity**.—This book suggests what and how to plant. It is a chapter from **BEES AND HONEY**. Price, 10 cents.

**The Hive I Use**, by G. M. Doolittle. It details his management of bees, and methods of producing comb honey. Price, 5 cents.

**Dr. Howard's Book on Foul Brood**.—Gives the McEvoy Treatment and reviews the experiments of others. Price, 25 cts.

**Silo and Silage**, by Prof. A. J. Cook.—It gives the method in operation at the Michigan Agricultural College. Price, 25 cts.

**Winter Problem in Bee-Keeping**, by G. R. Pierce. Result of 25 years' experience. 30 cts.

**Handling Bees**, by Chas. Dadant & Son.—A Chapter from Langstroth Revised. Price, 8 cts.

**History of Bee-Associations**, and Brief Report of the first 20 conventions. Price, 10 cts.

**Foul Brood Treatment**, by Prof. F. R. Cheshire.—Its Cause and Prevention. Price, 10 cts.

**Foul Brood**, by A. R. Kohnke.—Origin, Development and Cure. Price 10 cts.

**Bee-Keeping for Profit**, by Dr. G. L. Tinker.—Revised and enlarged. It details the author's "new system, or how to get the largest yields of comb or extracted honey." 80 p.; illustrated, 25c.

**Commercial Calculator**, by C. Ropp.—A ready Calculator, Business Arithmetic and Account-Book combined in one. Every farmer and business man should have it. No. 1, bound in water proof leatherette, calf finish. Price, 40 cts. No. 2 in fine artificial leather, with pocket, silicate slate, and account-book. Price, 60 cts.

**Green's Four Books**, by Chas. A. Green.—Devoted to, 1st, How We Made the Old Farm Pay; 2nd, Peach Culture; 3rd, How to Propagate Fruit-Plants, Vines and Trees; 4th, General Fruit Instructor. Nearly 120 pages. Fully illustrated. 25 cts.

**Garden and Orchard**, by Chas. A. Green.—Gives full instructions in Thinning and Marketing Fruits; Pruning, Planting and Cultivating; Spraying, Evaporation, Cold Storage, Etc. 94 pages, illustrated. Price, 25 cts.

**Kendall's Horse-Book**.—35 pictures, showing positions of sick horses, and treats on all their diseases. English or German. Price, 25 cts.

**Lumber and Log-Book**.—Gives measurements of lumber, logs, planks; wages, etc. 25c.

**Maple Sugar and the Sugar Bush**, by Prof. A. J. Cook.—Full instructions. Price, 35 cts.

**Grain Tables**, for casting up the price of grain, produce, hay, etc. Price, 25 cts.

**Capons and Caponizing**, by Dr. Sawyer, Fanny Field, and others.—Illustrated. All about caponizing fowls, and thus how to make the most money in poultry-raising. 64 pages. Price, 30 cts.

**Our Poultry Doctor**, or Health in the Poultry Yard and How to Cure Sick Fowls, by Fanny Field.—Everything about Poultry Diseases and their Cure. 64 pages. Price, 30 cts.

**Poultry for Market and Poultry for Profit**, by Fanny Field.—Tells everything about the Poultry Business. 64 pages. Price, 25 cts.

**Turkeys for Market and Turkeys for Profit**, by Fanny Field.—All about Turkey-Raising. 64 pages. Price, 25 cts.

**Rural Life**.—Bees, Poultry, Fruits, Vegetables, and Household Matters. 100 pages. 25 cts.

**Potato Culture**, by T. B. Terry.—It tells how to grow them profitably. Price, 40 cts.

**Hand-Book of Health**, by Dr. Foote.—Hints about eating, drinking, etc. Price, 25 cts.

**Bee-Keepers' Directory**, by H. Alley.—Latest methods in Queen-Rearing, etc. Price, 50c.

## Book Clubbing Offers.

(Read Carefully.)

The following clubbing prices include the American Bee Journal one year with each book named. Remember, that only ONE book can be taken in each case with the Bee Journal a year at the prices named. If more books are wanted, see postpaid prices given with the description of the books on this page. Following is the clubbing-list:

1. Langstroth on the Honey-Bee.....	\$2.00
2. A B C of Bee-Culture.....	2.00
3. Bee-Keepers' Guide.....	1.75
4. Bees and Honey [Cloth bound].....	1.65
5. Doolittle's Scientific Queen-Rearing.....	1.75
6. Dr. Howard's Foul Brood Book.....	1.10
7. Advanced Bee-Culture.....	1.30
8. Bienen-Kultur [German].....	1.20
9. Rational Bee-Keeping [Paper bound].....	1.75
10. Thirty Years Among the Bees.....	1.30
11. Bee-Keeping for Profit.....	1.15
12. Convention Hand-Book.....	1.15
13. Poultry for Market and Profit.....	1.10
14. Turkeys for Market and Profit.....	1.10
15. Capons and Caponizing.....	1.10
16. Our Poultry Doctor.....	1.10
17. Green's Four Books.....	1.15
18. Garden and Orchard.....	1.15
19. Rural Life.....	1.10
20. Commercial Calculator, No. 1.....	1.25
21. Commercial Calculator, No. 2.....	1.40
22. Kendall's Horse-Book.....	1.10
23. Potato Culture.....	1.20
24. Hand-Book of Health.....	1.10
25. Maple Sugar and the Sugar Bush.....	1.20
26. Silo and Silage.....	1.10
27. Winter Problem in Bee-Keeping.....	1.30
28. Apiary Register (for 50 colonies).....	1.75
29. Apiary Register (for 100 colonies).....	2.00
30. Bee-Keepers' Directory.....	1.30

## A Book Recommended by Dr. Gallup.

### THE NEW METHOD In Health and Disease.

By W. E. Forest, M. D., 12th Edition, Revised, Illustrated, and Enlarged. This is the greatest and best work ever published as a HOME PHYSICIAN, and as

#### A Guide to Health.

It makes the way from Weakness to Strength so plain that only those who are past recovery (the very few) need to be sick, and the well who will follow its teachings cannot be sick. It is now in many families the only counsellor in matters of health, saving the need of calling a physician and all expenses for medicines, as it teaches Hygiene and the use of Nature's remedies, not a drug treatment.

#### All Chronic Diseases

are considered, and there is not a curable disease that has not been helped by some of the "New Methods" given here; even those who have been pronounced Consumptive have been entirely cured. While for Rheumatism, Indigestion, Dyspepsia, Constipation, Dysentery, Liver and Kidney Troubles, Catarrh, Emaciation, General Debility, Nervous Exhaustion, Diseases Peculiar to Women, etc., the methods are sure, and can be carried out at one's own home and with little or no expense.

#### A Guarantee.

So confident are the publishers of the results, that they offer to refund the money to any one who will try "New Methods" thoroughly, if the book is returned in good condition.

#### The New Edition

is illustrated with a number of Anatomical plates from the best English work on Anatomy published, and others made expressly for this work; contains 300 pages, printed on fine calendered paper, and although the price of the first edition (much smaller in size and without illustrations) was \$2.50, we sell this at \$1.00, postpaid.

#### PREMIUM OFFERS.

For sending us two new subscribers to the Bee Journal for one year, we will mail you the book free as a premium, or we will mail it for sending your own advance renewal and one new yearly subscriber. This is a wonderful premium offer. Address all orders to—

GEORGE W. YORK & CO.,  
CHICAGO, ILLS.

## A Special Booklet Bargain!

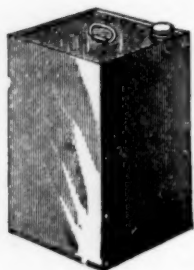
For a limited time we wish to make our readers a special offer on booklets on Bees, Poultry, Health, etc. Upon receipt of 75 cents we will mail any 6 of the list below; and for \$1.25 we will mail the whole dozen.

1. Foul Brood, by Dr. Howard.....	25c
2. Poultry for Market and Profit.....	25c
3. Turkeys for Market and Profit.....	25c
4. Our Poultry Doctor.....	30c
5. Capons and Caponizing.....	30c
6. Hand-Book of Health, by Dr. Foote.....	25c
7. Kendall's Horse-Book.....	25c
8. Rural Life.....	25c
9. Ropp's Commercial Calculator.....	25c
10. Foul Brood, by Kohnke.....	10c
11. Silo and Silage, by Prof. Cook.....	25c
12. Bienen-Kultur, by Newman.....	40c

GEORGE W. YORK & CO.,  
CHICAGO, ILLS.

Please Send Us the Names of your neighbors who keep bees, and we will send them sample copies of the BEE JOURNAL. Then please call upon them and get them to subscribe with you, and secure some of the premiums we offer.

Only 6 cts. per Pound in 4 Can Lots or Over.



## Finest Alfalfa Honey!

IT SELLS ON TASTING.

The Honey that Suits All Who Buy It.

We can furnish **White Alfalfa** Extracted Honey, in 60-pound tin cans, on board cars in Chicago, at these prices: 1 can, in a case, 7 cents per pound; 2 cans in one case, 6½ cents; 4 cans (2 cases) or more, 6 cents. The Cash must accompany each order.

A sample of the honey will be mailed to an intending purchaser, for 8 cents, to cover postage, packing, etc. We guarantee purity.

GEORGE W. YORK & CO., 118 Michigan Street, CHICAGO, ILL.

## Page & Lyon Mfg. Co. New London, Wisconsin,

Operates two sawmills that cut, annually, eight million feet of lumber, thus securing the best lumber at the lowest price for the manufacture of

### Bee-Keepers' Supplies.

They have also one **One of the Largest Factories** and the latest and most-improved machinery for the manufacture of

### Bee-Hives, Sections, Etc.,

that there is in the State. The material is cut from patterns, by machinery, and is absolutely accurate. For Sections, the **clearest and whitest Basswood** is used, and they are polished on both sides. Nearness to Pine and Basswood forests, and possession of mills and factory equip with best machinery, all combine to enable this firm to furnish the

### Best Goods at the Lowest Prices.

Send for Circular and see the Prices on a Full Line of Supplies.

Please mention the American Bee Journal.

7Atf

## BEE-KEEPERS:

We are making a strictly A No. 1 line of

## Hives, Sections, Shipping-Cases, Frames,

etc., and are selling these goods on their merits.

We do not claim to sell at cost as we are not in business merely for what glory there may be attached to it.

We do claim that our goods are as fine as can be produced anywhere, and that our prices will be found fair and reasonable.

We are in a position to serve you promptly and satisfactorily, and we ask you to give us a chance to do so.

Why not write to us to-day for our **Free, Illustrated Catalog?** Or, better still, send us a list of what goods you will require for next season's use, and we shall take pleasure in quoting prices on same. Very truly yours,

G. B. LEWIS CO., WATERTOWN, WIS.

**We PAY FREIGHT** is only one of Stark 12 Challenge Points—the full 12 plainly show WHY Stark Bro's grow and sell the most trees. Then, we will not cut quality no matter how LOW our price. If interested in trees or fruits drop postal for **STARK FRUIT BOOK** new edition; finest, most complete yet issued sent free. **STARK BROS., Louisiana, Mo. Stark, Mo. Rockport, Ill. Dansville, N.Y.**

**STARK NURSERY**

## That Queen-Clipping Device Free!

PLEASE READ THIS OFFER TO PRESENT SUBSCRIBERS:

Send us just one new name for the American Bee Journal a year (with \$1.00), and we will mail you the Queen-Clipping Device FREE of charge. Or, the Queen-Clipping Device will be sent postpaid for 30 cts. But why not get it as a Premium by the above offer? You can't earn 30 cts. any easier. Almost every bee-keeper will want this Device.

GEORGE W. YORK & CO., 118 Michigan St., CHICAGO, ILL.

## BEES FOR SALE.

About 90 Colonies of Italians. Any one wanting to start an apiary cannot do better than to call on Dr. E. Gallup, Santa Ana, Calif., and examine the Bees before purchasing elsewhere. Double sets of Combs in Langstroth-Simplicity Hives, and warranted a superior lot of Bees for business. Correspondence solicited. **Dr. E. GALLUP,** SANTA ANA, Orange Co., CAL.

## CARLOADS—



Of Bee-Hives, Sections, Shipping-Cases, Comb Foundation, and **Everything** used in the Bee-Industry.

We want the name and address of every Bee-keeper in America. We supply Dealers as well as consumers. We have Dry Kiln, Improved Machinery, 40,000 feet of floor space, and all modern appliances. We make prompt shipment.

Write for Catalogs, Quotations, etc.

Inter-State Manufacturing Co.,

HUDSON, St. Croix Co., WIS.



**OUR PRICES** are worth looking at. We are making the new

### Champion Chaff-Hive

with dovetailed body and supers, and a full line of other Supplies, and we are selling them **CHEAP**. A postal sent for a price-list may save you \$5.00.

**R. H. SCHMIDT & CO.,** Box 187, SHEBOYGAN, WIS.

Please mention Bee Journal when writing.

## COMB FOUNDATION Wholesale and Retail.

Working Wax into Foundation for **CASH** A Specialty.

**At Reduced Prices during the Winter.**

My Foundation will **SPEAK FOR ITSELF**, and prices are O. K. So do not fail to write for a Catalog with prices and samples.

**Beeswax taken in Exchange** for Foundation or any other Supplies.

**GUS DITTMER,**

AUGUSTA, WIS.



## THE MONEY QUESTION

is easily settled by the poultry question. You can settle the poultry question by reference to our **Mammoth Annual Poultry Guide** Contains 100 pages printed in finest colors, 20 varieties of poultry and how to treat them in health and disease and how to make money with them. Poultry house plans, recipes; postpaid 15c. **John Bauscher Jr., Box 94, Freeport, Ill.**

44A26t Please mention the Bee Journal

## FREE FOR A MONTH.

If you are interested in sheep in any way you cannot afford to be without the best and only weekly sheep paper published in the United States.

## WOOL MARKETS AND SHEEP

has a hobby which is the sheep breeder and his industry, first foremost and all the time. Are you interested? Write to-day **Wool Markets & Sheep,** - Chicago.

Please mention Bee Journal when writing.



## SEE THAT WINK!

**Bee - Supplies!** Root's GOODS at Root's Prices.

**Pounder's Honey - Jars,** and every thing used by bee-keepers. Prompt service, low freight rate. Catalog free. **Walter S. Pounder,** 162 Mass. Ave., INDIANAPOLIS, INDIANA.

Please mention Bee Journal when writing.



44A26t Please mention the Bee Journal.



# HONEY and BEESWAX

## MARKET QUOTATIONS.

**Chicago, Ill., Dec. 13.**—Fancy white 11 to 12c. No. 1, 10c.; fancy amber, 8 to 9c.; No. 1, 7c.; fancy dark, 7c. Extracted, white, 5 to 6c.; amber, 4 to 5c.; dark, 4c. Beeswax, 26 to 27c. The demand for comb honey is not satisfactory, and it can be bought at even lower prices than quoted, where it is not in the hands of regular dealers. There seems to be no outside demand. Extracted without special change. Beeswax is scarce.

**Milwaukee, Wis., Dec. 13.**—Fancy white, 12 to 13c.; No. 1, 11 to 12c.; fancy amber, 9 to 10c.; fancy dark, 8 to 9c. Extracted, white, 5½ to 6c.; amber, 4½ to 5c. Beeswax, 25 to 27c.

This market has been fairly sustained on honey since our last report. Values remain about the same, as there has been a very good consumptive demand, especially for extracted, while the comb honey has seemed to accumulate with increased receipts, and we feel to meet the demand even if at a reduction from quotations. There seems to be more demand from those who eat honey than in former seasons, which is a good feature of the trade which we desire to encourage. We are expecting a good trade from this forward.

**Cleveland, Ohio, Dec. 15.**—Fancy white, 12 to 13½c.; No. 1, 11 to 12c.; No. 1, amber, 9 to 10c. Extracted, white, 6 to 7c.; amber, 4 to 5c. Beeswax, 22 to 25c.

**New York, N. Y., Dec. 22.**—Fancy white 11 to 11½c.; off grades, 9 to 10c.; buckwheat and mixt, 6½ to 7c. Extracted, California white, 5 to 5½c.; light amber, 4½ to 4¾c.; white clover and basswood, 5 to 5½c.; buckwheat, 4 to 4½c.; Southern, 50c. a gallon. Beeswax is in good demand at 25 to 27c.

Our market remains quiet. Fancy grades of white comb are about cleaned up, and these would find sale on arrival at quotations. We have a large stock of buckwheat, mixt, and off grades of white, and as the demand for these is very light, we cannot encourage further shipments for the near future. Extracted of all kinds is selling fairly well.

**Minneapolis, Minn., Dec. 15.**—Fancy white, 11 to 12c.; No. 1, 10 to 11c.; fancy amber, 10c.; No. 1, 9½c.; fancy dark 9 to 9½c.; No. 1, 8 to 9c. Extracted, white, 5 to 6c.; amber, 4 to 4½c.; dark, 4c. Beeswax, 23c. Market holds firm at above prices. Good demand for extracted. Wax is quiet but firm at 23c.

**Kansas City, Mo., Dec. 15.**—Fancy white, 10½ to 11c.; No. 1, 10 to 10½c.; fancy amber, 9½ to 10c.; No. 1, 9 to 9½c.; fancy dark, 8½ to 9c. Extracted, white, 5½ to 6c.; amber, 5 to 5½c.; dark, 4 to 4½c. Beeswax, 20 to 22c.

**St. Louis, Mo., Dec. 13.**—Fancy white, 12 to 12½c.; No. 1, 10½ to 11½c.; fancy amber, 9½ to 10c.; No. 1, 9c.; fancy dark, 8c. Extracted, white, 5 to 5½c.; amber, 4 to 4½c.; dark, 3½ to 4c. Beeswax, 24½ to 25c.

We would advise prompt shipments of honey. We do not see any probabilities of better prices. The stock of honey is ample for the demand.

**Albany, N. Y., Dec. 13.**—Fancy white, 12 to 13c.; No. 1, 11 to 12c.; fancy amber, 8 to 9c.; No. 1, 8c.; fancy dark, 8c.; No. 1, 7½ to 8c. Extracted, white, 5 to 6c.; amber, 4½ to 5c. dark, 4 to 4½c.

There is an ample stock of comb on hand and selling freely at quotations. Extracted is not plentiful and from information received there is not much in the hands of producers.

**Buffalo, N. Y., Dec. 24.**—Strictly fancy 1-pound comb honey is more active at mostly 10c., occasionally 11c., but all other grades are dormant and have to be cut to almost any price to move them, ranging from 8c. down to 6c. Extracted is moving slowly at 5 to 6c. for fancy; dark, 4 to 4½c. A liberal quantity can be sold; and, of course, the low grades can be forced off for what they will bring. If owners cannot do any better.

There is no selling pressure of consequence on desirable lots of water white, either comb or extracted, such being held as a rule at full quotations. Amber grades are in greater supply than the demand and market for this class presents an easy tone. Dark qualities are in poor request, despite low asking figures. Beeswax is firm at current quotations, with very little offering, either from first or second hands.

**Philadelphia, Pa., Nov. 13.**—Fancy white, 13 to 14c.; No. 1, 12c.; fancy amber, 10c.; No. 1, 9c.; No. 1 dark, 8c. Extracted, white, 5 to 5½c.; amber, 5c.; dark, 4 to 4½c. Beeswax, 27c.

Honey is arriving very freely; market is a little off. Beeswax is in good demand.

**Boston, Mass., Nov. 8.**—Fancy white, in cartons, 13c.; No. 1, 11 to 12c.; fancy amber, 10c. Extracted, white, 6 to 7c.; amber, 5 to 5½c. Beeswax, 28c.

No. 1 and fancy honey has sold well during the past 10 days, but off grades and light weight is going slowly. Beeswax is in good demand and but little here.

**Detroit, Mich., Nov. 9.**—Fancy white, 11 to 12c.; No. 1, 10 to 11c.; fancy amber, 9 to 10c.; No. 1, 8 to 9c.; fancy dark, 7 to 8c. Extracted, white, 5 to 6c.; amber, 4 to 5c. Beeswax, 25 to 26c.

**Indianapolis, Ind., Nov. 8.**—Fancy white, 11 to 13c.; No. 1, 9 to 10c.; fancy amber, 9 to 10c. Extracted, white, 5 to 6c. Beeswax, 25c.

Demand for fancy white comb honey and fancy white extracted is exceptionally good, while there is almost no demand for dark or amber comb or extracted honey.

**Cincinnati, Ohio, Dec. 22.**—There is no change in prices, but rather a slow demand for the holiday season. We quote 10 to 14c. as the range of prices for best white comb honey, and 3 to 6c. for extracted, according to quality. Beeswax is in fair demand at 20 to 25c. for good to choice yellow.

## List of Honey and Beeswax Dealers.

Most of whom Quote in this Journal

### Chicago, Ill.

R. A. BURNETT & Co., 163 South Water Street.

### New York, N. Y.

HILDRETH BROS. & SEIGLER, 120 & 122 W. Broadway.

### Kansas City, Mo.

C. C. CLEMOMS & Co., 423 Walnut St.

### Buffalo, N. Y.

BATTERSON & Co., 167 & 169 Scott St.

### Hamilton, Ill.

CHAS. DADANT & SON.

### Cleveland, Ohio.

A. B. WILLIAMS & Co., 80 & 82 Broadway.

### Philadelphia, Pa.

WM. A. SELSER, 10 Vine St.  
Mr. Selser handles no honey on commission

### St. Louis, Mo.

WESTCOTT COM. CO., 213 Market St.

### Minneapolis, Minn.

S. H. HALL & CO.

### Milwaukee, Wis.

A. V. BISHOP & Co.

### Boston, Mass.

BLAKE, SCOTT & LEE, 57 Chatham Street.

### Detroit, Mich.

M. H. HUNT, Bell Branch, Wayne Co., Mich.

### Indianapolis, Ind.

WALTER S. POWDER, 162 Massachusetts Ave.

### Albany, N. Y.

CHAS. McCULLOCH & Co., 380 Broadway.

### Cincinnati, Ohio.

C. F. MUTH & SON, cor. Freeman & Central Aves.



Bee-Hives, Sections, Shipping-Cases—everything used by bee-keepers. Orders filled promptly. Send for catalog. MINNESOTA BEE-KEEPERS' SUPPLY CO., Nicollet Island, Minneapolis, Minn.

22 Atf CHAS. MONDENG, Mgr.  
Please mention Bee Journal when writing.

## Beautiful Honey-Cases

Made by the A. I. Root Co., at their prices. Beeswax Wanted.

M. H. HUNT, Bell Branch, Mich.  
Please mention Bee Journal when writing.

## Muth's HONEY-EXTRACTOR

Square Glass Jars.

Root's Goods at Root's Prices.

BEE-KEEPERS' SUPPLIES in general, etc. etc. Send for our new catalog. "Practical Hints" will be mailed for 10c. in stamps. Apply to—

Chas. F. Muth & Son, Cincinnati, Ohio.  
Please mention Bee Journal when writing.

## Honey - Clovers !

We have made arrangements so that we can furnish seed of several of the Clovers by freight or express, at the following prices, cash with order:

	5lb	10lb	25lb	50lb
Alsike Clover.....	.70	\$1.25	\$3.00	\$5.75
Sweet Clover (white).....	.60	1.00	2.25	4.00
White Clover.....	.90	1.60	3.75	7.00
Alfalfa Clover.....	.60	1.00	2.25	4.00
Crimson Clover.....	.55	.90	2.00	3.50

Prices subject to market changes.

Add 25 cents to your order, for cartage, wanted by freight.

Your orders are solicited.

GEORGE W. YORK & Co.

CHICAGO, ILL.

Please mention Bee Journal when writing.

## IF YOU WANT THE

## —BEE-BOOK

That covers the whole Apicultural Field more completely than any other published, send \$1.25 to Prof. A. J. Cook, Claremont, Calif., for his

## Bee-keeper's Guide.

Liberal Discounts to the Trade.

## PATENT WIRED COMB FOUNDATION

Has No Sag in Brood-Frames

Thin Flat-Bottom Foundation

Has No Fishbone in the Barrels Honey.

Being the cleanest is usually worked the quickest of any Foundation made

J. A. VAN DEUSEN.

Sole Manufacturer, Sprout Brook Montomery Co., N. Y.

Please mention Bee Journal when writing.



## ONE MAN WITH THE UNION COMBINATION SAW

Can do the work of four men using hand tools, in Ripping, Cutting-off, Milling, Rabbeting, Grooving, Gaining, Dadoing, Edging-up, Jointing Stuff, etc. Full Line of Foot and Hand Power Machinery. Sold on Trial. Catalogue Free.

SENECA FALLS MFG. CO.,

46 Water St SENECA FALLS, N. Y.

Please mention Bee Journal when writing.

**BEE-KEEPERS !** Let me send you my 64-page Catalog for 1897. J. M. Jenkins, Wetumpka, Ala.

Please mention Bee Journal when writing.

## California \*\*\*

If you care to know of its Fruits, Flowers Climate or Resources, send for a Sample Copy of California's Favorite Paper—

## The Pacific Rural Press

The leading Horticultural and Agricultural paper of the Pacific Coast. Published weekly, handsomely illustrated \$2.00 per annum. Sample Copy Free.

PACIFIC RURAL PRESS, 330 Market St., - SAN FRANCISCO, CAL.  
Please mention Bee Journal when writing.